

FIG. 1

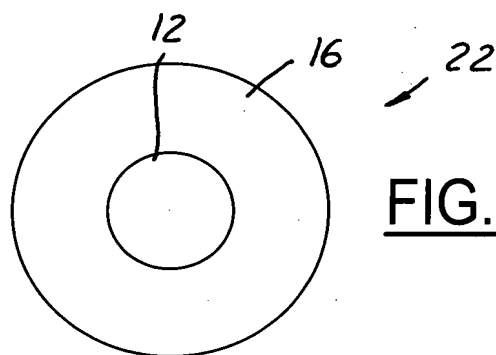


FIG. 2

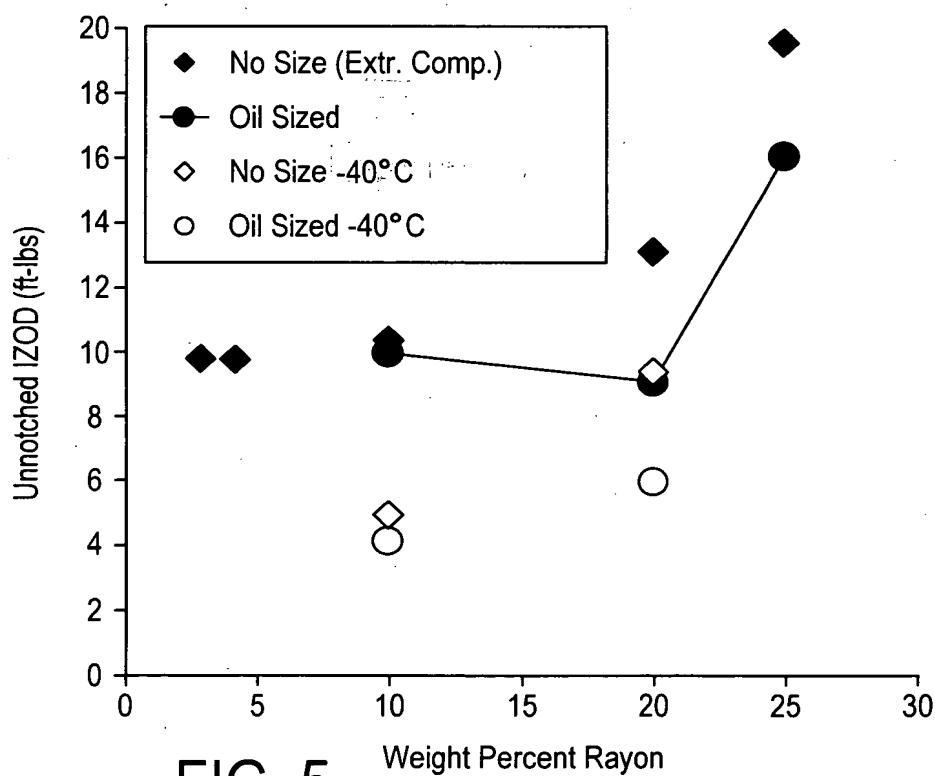


FIG. 5

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A line graph showing the relationship between Notched Izod impact energy (in ft-lbs) on the y-axis and Weight Percent Fiber on the x-axis. The y-axis ranges from 0.0 to 7.0 in increments of 1.0. The x-axis ranges from 0 to 50 in increments of 10. Five data series are plotted, each representing a different fiber type and orientation, indicated by handwritten labels and symbols:

- 100** (Solid circles): Shows a significant increase in impact energy as fiber content increases, starting at approximately 1.8 ft-lbs at 10% fiber and reaching about 6.2 ft-lbs at 33% fiber.
- 130** (Asterisks): Shows a relatively stable impact energy, starting at approximately 3.7 ft-lbs at 20% fiber and ending at about 3.7 ft-lbs at 50% fiber.
- 105** (Open squares): Shows a slight increase in impact energy, starting at approximately 0.8 ft-lbs at 10% fiber and reaching about 1.8 ft-lbs at 40% fiber.
- 110** (Solid diamonds): Shows a slight increase in impact energy, starting at approximately 1.3 ft-lbs at 10% fiber and reaching about 1.2 ft-lbs at 30% fiber.
- 120** (Solid circles): Shows a slight increase in impact energy, starting at approximately 0.6 ft-lbs at 20% fiber and reaching about 0.9 ft-lbs at 40% fiber.

Weight Percent Fiber	100 (ft-lbs)	130 (ft-lbs)	105 (ft-lbs)	110 (ft-lbs)	120 (ft-lbs)
10	1.8	-	0.8	1.3	-
20	2.9	3.7	1.5	-	0.6
30	5.4	3.6	1.8	1.2	0.8
40	-	3.1	1.8	-	0.9
50	-	3.7	-	-	-

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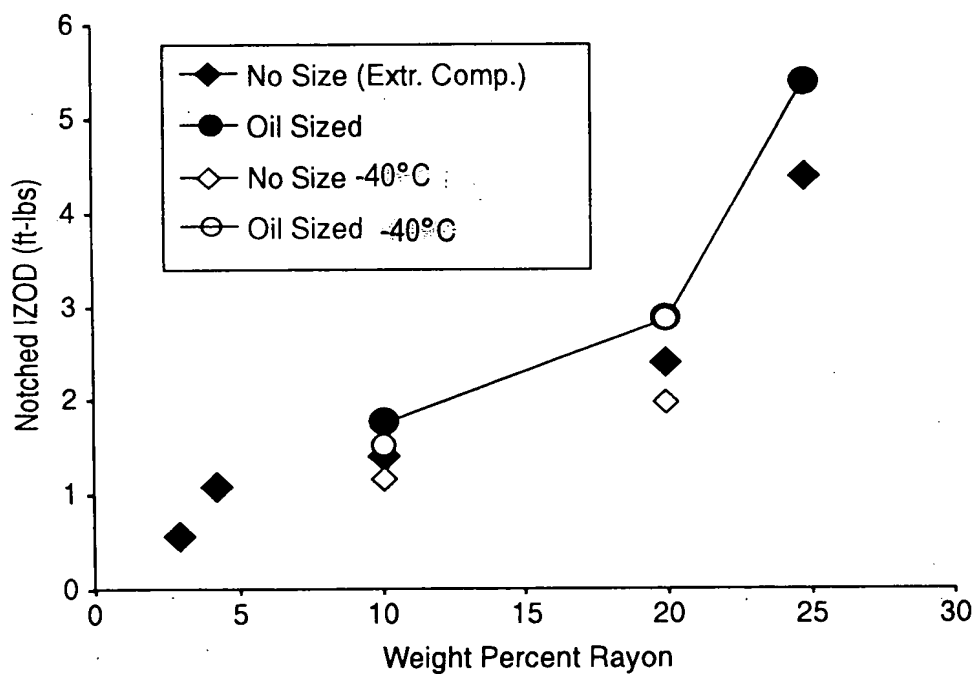


FIG. 4